

## ESH Coordinators Meeting

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# *BNL's* *Quality Program* "Reduce Vulnerability"

## *Review & update*

Quality Programs & Services Office  
July 11, 2001

# QA-Integration Project & The Program Office

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## Agenda

### The QA Program update

- Progress/Review-2000
- What's happening now " 2001"

### The Programs & Services Office

- Overview

# Quality Programs & Services

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## Brief History

### Individual QA Programs

- 5700.6C QA Order — 414.1 QA Order incorporated in BNL contract 5/99

### Then:

- The DOE Quality Assurance Rule Rule(QA Rule) which is part of the Nuclear Safety Management Rule 10 CFR 830—”is Clarified”

## Quality Programs & Services

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- July 1, 1999 DOE EH-10 Clarifies
  - The QA Rule (10CFR830.120) applies broader than previously interpreted by DOE Laboratories. Clarification stated that QA requirements apply to **ALL** radiological work(Except Accelerators).

# PRICE ANDERSON AMENDMENT ACT

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## QA Rule Enforced Via PAAA

### Applicability at BNL

- Any radiological work performed under DOE Contract
- Work performed within any DOE nuclear facility
- Work performed by BNL staff that impacts the safety of either a BNL or another DOE nuclear facility or activity

# Quality Programs & Services

## BNL's Response- The QA- Integration Project

### What is It?

- It was a Project that Integrated Technical Quality Requirements into BNL's Current Management Systems (SBMS)
- It addresses:



*Completed December 2000*

# Quality Programs & Services

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DOE O 414.1 (The Order) And  
10 CFR830.120 (The Rule)

## Both Consist of 10 Criteria

1-Program (**Graded Approach**)

2-Personnel Training & Qualification

3-Quality Improvement - NCR

4-Documents & Records

5-**Work Processes**

ESH\_- 1.3.6

ESH - 1.3.5

6-Design

7-**Procurement**

8-Inspection and Acceptance Testing

9-Management Assessment

10-Independent Assessment

**Subject Areas Support the 5 Core Functions of ISM**

# Quality Programs & Services

## Management Systems Approach to Quality

### Quality Integration - 2000

#### SBMS

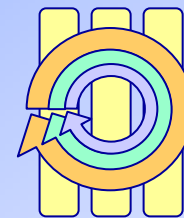
- Life Cycle Asset Management System
- Quality Management System
- Record Management System
- Acquisition Management System
- Property Management Systems

**World Class  
Science and  
Technology**

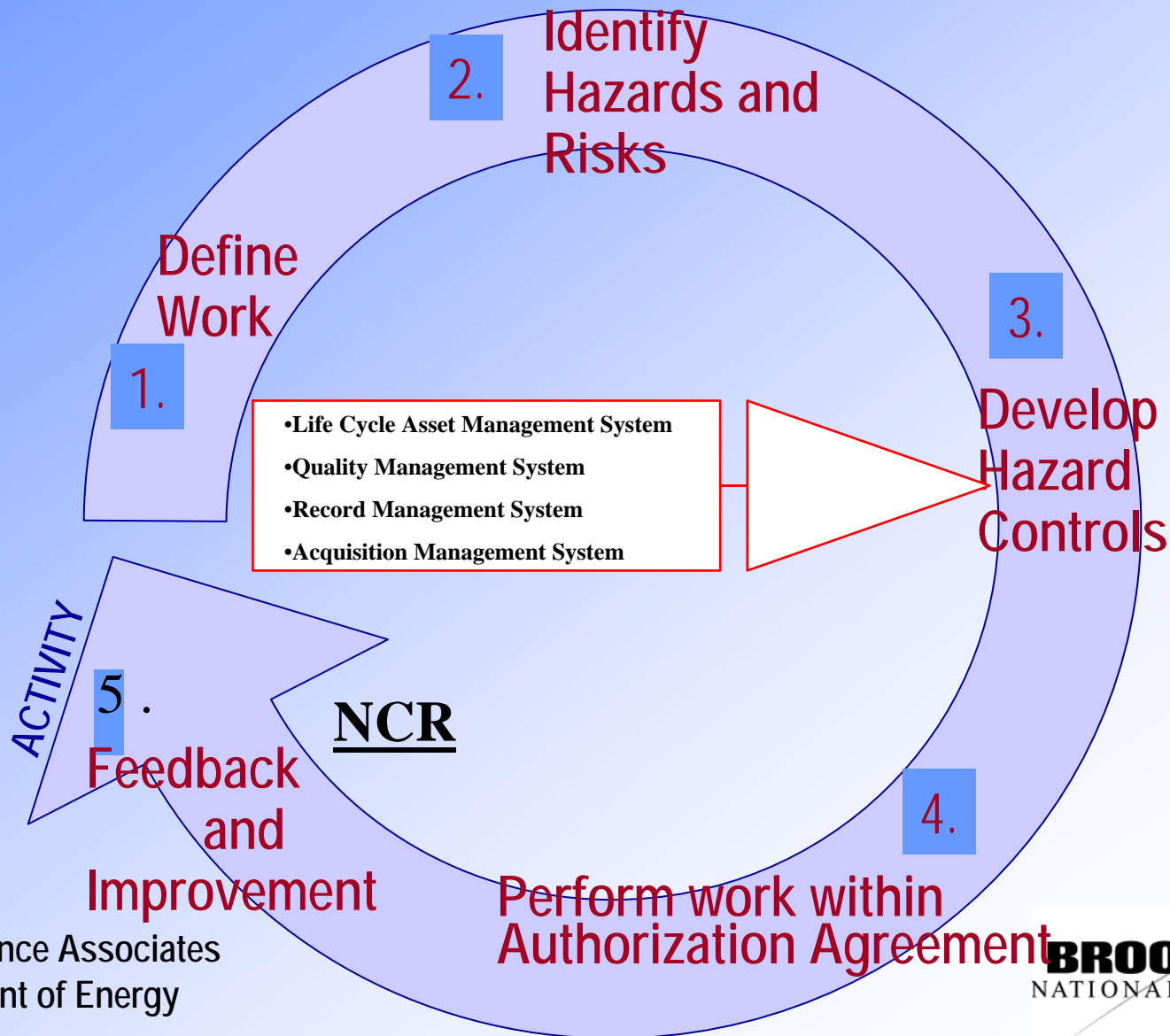
8-MSD's  
12-SA's

### Critical Outcome 2001





## The QA Program Supports- Work Planning and Control



# What's Happening "NOW"- 2001

**January 2001**

## **Changes to 830.120 & Effect on BNL**

**Scope of Subpart as well as Program Requirements-** Modified to strongly emphasize the responsibility of DOE prime contractors for the quality of their subcontractors' and suppliers' work

**Effect on BNL-** Systems for the flow down of requirements are in place and adequate. It however increases BNL's vulnerability to PAAA

# What's Happening "NOW"- 2001

**January 2001**

## **Changes to 830.120 & Effect on BNL**

### **Changes**

- The QA program must be integrated with Safety Management System. A single document or a QAP that describes how the QA criteria apply to SMS
- The Work Process Criterion explicitly adds an element to perform work consistent with "Hazard Controls"

### **Effect on BNL**

Document Change

"Hazard Controls" well defined & used

## What's Happening "NOW"- 2001

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- The Quality Program Description was just Modified and approved by DOE-June 15, 2001
  - It better integrates the 5 core functions of ISM
  - Emphasis work controls and flow down of requirements
- Currently working with DOE and Management System Stewards in performing one of BNL's contract performance measure for FY01
- Battelle / DOE QA Program Review- August 2001

## BNL's- Quality Measure for FY01

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- FY 2001 Contract Performance Measure.
- Objective is to verify that BNL's QAP is in place.
- Evaluating the MS that support the QAP -
  - How well are they defined?
  - How well are they implemented across the lab?
  - How well are they assessed and improved?

# QAP Verification

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A verification project plan was developed with three things in mind:

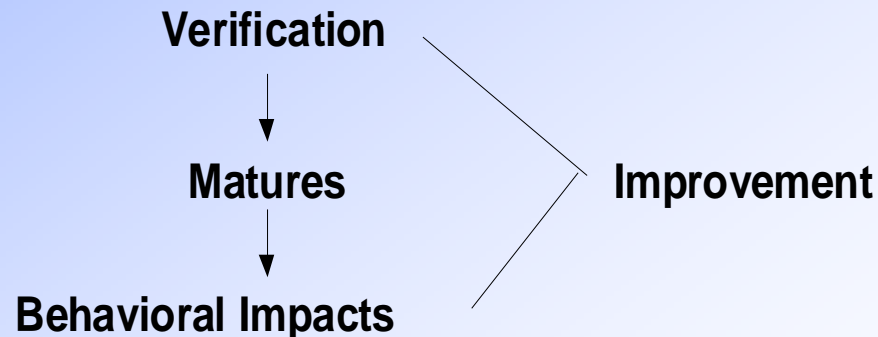
1. The maturity of the Management System approach used at BNL to deploy QA requirements
2. The Five phases of the Management System life cycle  
-Develop- Implement- Verify-Mature-Behavior
3. The need for a tool for Management System Assessment
  - This evaluation process could become a lab-wide method for evaluating MS

The goal was to develop a practical, reasonable approach that adds value.

# Quality Program

## ➤ **Benefits - Reduced Vulnerabilities**

- Supports ISM by developing and utilizing consistent approaches to:
  - Work planning- Controls- Feedback & Improvement
- Compliance is accomplished without the HAMMER
  - Utilize a business approach to Quality
- Works the Infrastructure Establishment - Make it REAL
- Supports the IAP Focus on Feedback & Improvement
- Support BNL's Vision of "World Class" Science & Technology



- **Quality at BNL becomes Transparent**

# Quality Programs & Services Office

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## *The Office*

- Supports the "Management Systems Approach"
- Supports Organizations in Understanding & complying with the Lab approach to "Q"
- Cross utilizes Lab wide QA Staff
- Works to demonstrate "Value Added Quality"
- Supports organizations in the implementation of Quality related MSD's & SA's
- Provides ongoing service to line staff



# Quality Programs & Services Office

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## Summary

- Be reasonable about Quality  
Get to understand the -(The Graded Approach)
- You can always ask the “Quality Programs & Services Office” for help at X3689

Quality Programs & Services Office

Located in BLDG 703M

Roy Lebel- Manager X6392